
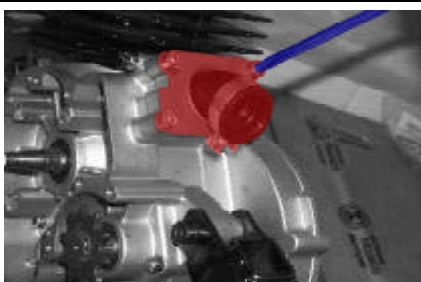



## ENGINE DISASSEMBLY

### CARBURETOR UNIT

DIAGRAM	DESCRIPTION	TOOL CODE	NOTES
	Disassemble the <b>CARBURETOR</b>		
	Loosen the <b>SCREWS</b> and remove the <b>CARBURETOR MANIFOLD</b>		<b>BEFORE LOOSEN THE SCREWS CHECK ACTUAL MANIFOLD ANGLE POSITION</b>  <b>THE MANIFOLD IS COMPOSED BY 4 ELEMENTS.</b>
	Remove the <b>CARBURETOR MANIFOLD BASE</b> including the <b>REED VALVE</b>		

**CYLINDER HEAD - CYLINDER - PISTON**



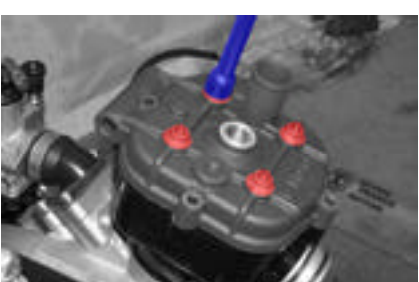


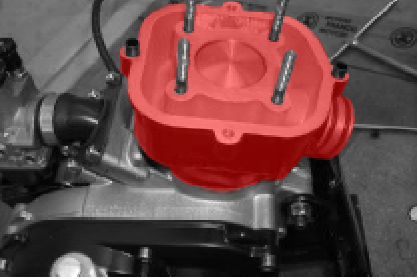
DIAGRAM	DESCRIPTION	TOOL CODE	NOTES
	Remove the <b>SPARK PLUG</b>		
	Remove the <b>4 CYLINDER HEAD BOLTS</b>		
	Remove the <b>4 CYLINDER HEAD NUTS</b>		
	Remove the <b>CYLINDER HEAD</b>		<b>PAY ATTENTION TO THE DOWEL PINS</b>
	Check the condition of the <b>O-RING (HEAD GASKET)</b> . <b><u>Replace if excessively worn.</u></b>		

DIAGRAM	DESCRIPTION	TOOL CODE	NOTES
	Disassemble the <b>CYLINDER</b> and remove the <b>CYLINDER BASE GASKET</b>		

**FLYWHEEL SIDE**

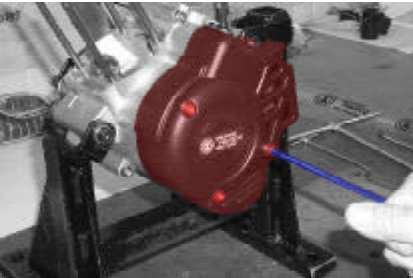
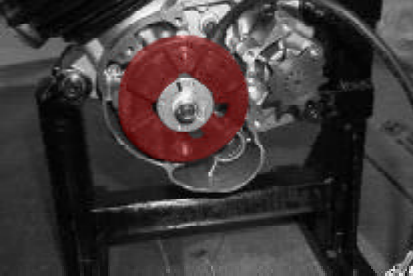








DIAGRAM	DESCRIPTION	TOOL CODE	NOTES
	Loosen the clamping <b>BOLTS</b> and remove the <b>FLYWHEEL COVER</b>		<b>MIND THE BRACKET INSIDE THE COVER</b>
	Disassemble the <b>FLYWHEEL STATOR</b>		
	Disassemble the <b>FLYWHEEL ROTOR</b>	<b>143151</b>	<b>ROTOR LOCK NUT CLAMPED WITH LOXEAL</b>
	Remove the <b>PULLEY CLAMPING BOLT</b>		
	Remove the <b>DRIVEN PULLEY</b>		

DIAGRAM	DESCRIPTION	TOOL CODE	NOTES
	Remove the <b>PUMP DRIVE BELT</b>		
	Remove the <b>SPECIAL SNAP RING</b>		
	Remove the <b>SPACER RING</b>		

**The following operations can only be carried out after opening the crankcase**

DIAGRAM	DESCRIPTION	TOOL CODE	NOTES
	Unscrew the <b>WATER PUMP ROTOR</b>		<b>BLOCK THE PUMP SHAFT</b>
	Remove the <b>PUMP SHAFT UNIT</b> including the bearings. <i>The pump shaft seal ring must be replaced by every disassembly. The 2 bearing snap rings on the water pump must be replaced by every disassembly.</i>		<b>PAY ATTENTION TO THE SPACERS BETWEEN THE BEARINGS</b>

**CLUTCH SIDE**



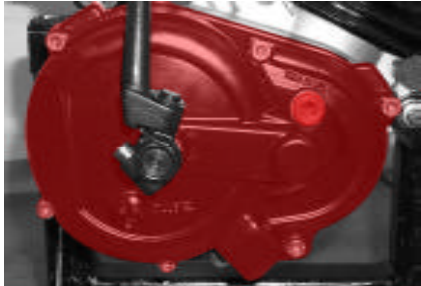
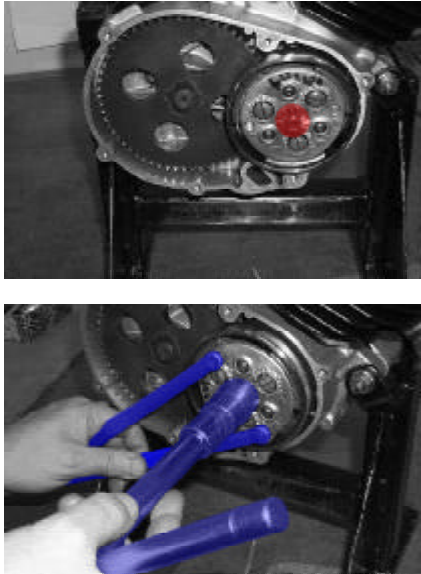
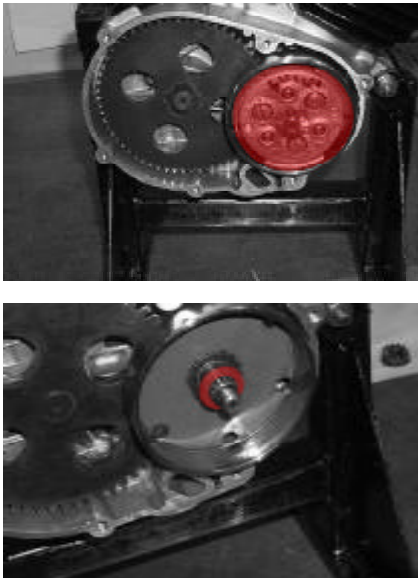
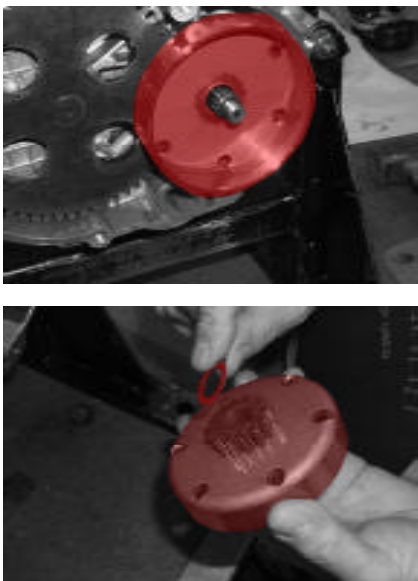
DIAGRAM	DESCRIPTION	TOOL CODE	NOTES
	Disassemble the <b>CLUTCH ADJUSTING PLUG</b>		<b>ONLY IF CLUTCH NEEDS TO BE ADJUSTED</b>
	Remove the <b>OIL DRAIN PLUG</b> (cross head)		<b>MAKE SURE TO DRAIN THE ENGINE COMPLETELY</b>
	Loosen the clamping <b>BOLTS</b> on the cover and remove the <b>CLUTCH COVER</b>		
	Remove the <b>SPECIAL FRONT CLUTCH NUT</b> and the <b>BELLEVILLE WASHER</b>	Compass tool	<b>CLAMPED WITH LOXEAL.</b>

DIAGRAM	DESCRIPTION	TOOL CODE	NOTES
	<p>Disassemble the <b>SPECIAL CLUTCH</b> and the 2.5mm <b>SPACER RING</b></p>		
	<p>Remove the <b>CLUTCH BELL</b> and the 0.8mm <b>SPACER RING</b></p>		



**CRANKCASE "OPENING"**

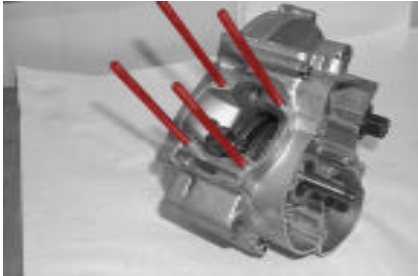
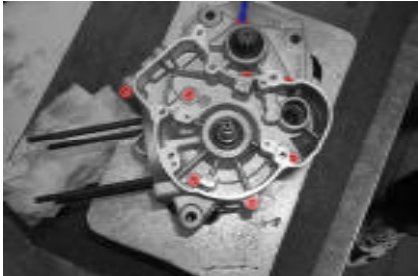

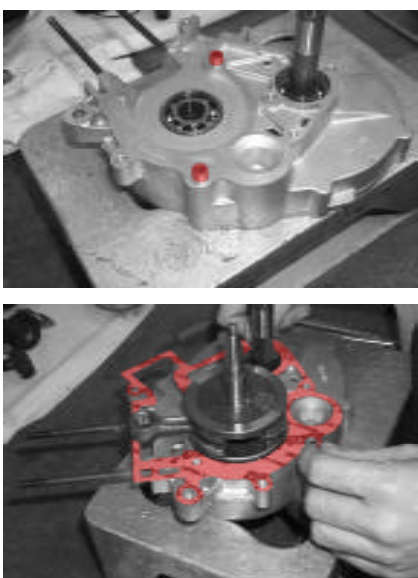
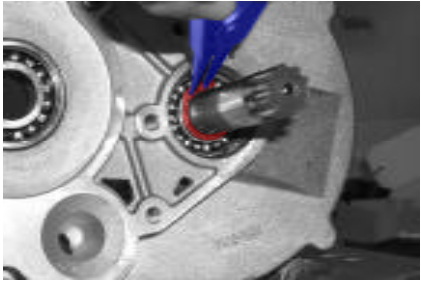



DIAGRAM	DESCRIPTION	TOOL CODE	NOTES
	Remove the cylinder <b>STUD BOLTS</b> if necessary		<b>BLOCKED WITH LOXEAL</b>
	Remove the 8 <b>CRANKCASE BOLTS</b>		
	Open the <b>CRANKCASE</b>	143162	<b>THE CRANKSHAFT IS DRIVEN ONTO THE BEARINGS. OPEN THE CRANKCASE FROM FLYWHEEL SIDE USING THE PULLER TOOL</b>
	Remove the <b>DOWEL PINS</b> and the <b>CRANKCASE GASKET</b> . Remove the crankshaft if necessary		



DIAGRAM	DESCRIPTION	TOOL CODE	NOTES
	Remove the <b>OUTPUT SHAFT SNAP RING</b>		
	Remove the <b>OUTPUT SHAFT</b>		
	Inspect the <b>OUTPUT SHAFT BEARING</b> for abnormal play and noise. Replace the bearing if anything unusual occurs.  Remove the <b>SNAP RING</b>		
	Remove the <b>BEARING</b> by using a standard bearing remover set.  To replace the <b>CRANKSHAFT BEARING</b> and the <b>OUTPUT SHAFT ROLLER CAGE</b> (flywheel side) follow the same procedure as described above.		<b>THE BEARING IS DRIVEN INTO THE BEARING HOUSING</b>

